

# HIAWATHA COAL COMPANY, INC.

P.O. Box 1240  
Huntington, Utah 84528



Office (801) 857-0399

March 31, 2019

Coal Program  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

To Whom It May Concern,

**Re: Annual Report 2018, Hiawatha Coal Company, Hiawatha Mine, C/007/0011**

Attached is an electronic submittal of the 2018 Annual Report for Hiawatha Coal Company. If you have any questions, please call me at (801) 857-0399 or email me at [charles.reynolds@hiawathacoal.com](mailto:charles.reynolds@hiawathacoal.com).

Sincerely,

A handwritten signature in cursive script, appearing to read 'Charles Reynolds'.

Charles Reynolds, PE  
Mine Manager

# 2018 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2019.

## GENERAL INFORMATION

Company Name	Hiawatha Coal Company, Inc.	Mine Name	Hiawatha Mine Complex
Permit Number	C/007/0011	Permit expiration Date	March 14, 2022
Operator Name	Hiawatha Coal Company, Inc.	Phone Number	+1 (801) 857-0399
Mailing Address	P.O. Box 1240	Email	charles.reynolds@hiawathacoal.com
City	Huntington		
State	Utah	Zip Code	84528

## DOG M File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Appendix A
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Appendix A
Other:		

## OPERATOR COMMENTS

The Hiawatha Mine Complex continues in temporary cessation at least until the year 2024. No mining is projected in the next 5 years. No coal fines were removed from coal waste areas in 2018. Road conditions remain unchanged with the exception of final repairs from previous forest fire related flooding damage in Middle Fork. Repairs were completed on the Middle Fork sediment pond and other structures as well as several other sediment pond cleanouts and recertifications in 2018. The property appears to have stabilized from the former forest fire damage. Water monitoring data has been submitted quarterly and is available in the UDOGM water database for review.

## REVIEWER COMMENTS

Met Requirements  Did Not Meet Requirements

# FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

## **Title: REACTIVATION OF OPERATIONAL MONITORING OF SPRINGS**

**Objective:** Monitor springs SP-2, SP-4, SP-5, SP-11, SP-11, SP-12, and SP-13.

**Frequency:** Quarterly sampling to initiate at least two years prior to resuming underground mining activities.

**Status:** Monitoring suspended while in temporary cessation.

**Reports:** Notify Division in Annual report if/when mining is to occur.

**Citation:** Chapter 7, Section R645-731.214, Table 7-17

## **Title: SUBSIDENCE MONITORING**

**Objective:** Prior to any future mining, the Permittee commits to collect updated survey information on all subsidence monitoring points to establish a baseline from which to compare data.

**Frequency:** annually

**Status:** Suspended while mine is in temporary cessation.

**Reports:** annual reports.

**Citation:** Volume 4, Chapter 5, page 5-50

## **Title: COAL MINE WASTE CLEANUP**

**Objective:** Remove coal mine waste from areas of slurry ponds and refuse piles.

**Frequency:** Ongoing

**Status:** After rough grading to final contour, but prior to topsoil application at final reclamation.

**Reports:** Keep records of activity/ volumes to report in bond release application.

**Citation:** Chapter 5, Section R645-301-541, page 5-103, 5-104 and Ex. II-4A.

## **Title: NUTRIENTS AND AMENDMENTS TO TOPSOIL**

**Objective:** Ensure adequate growth medium

**Frequency:** Composite sample topsoil for nutrient status after topsoil application at final reclamation.

**Status:** At final reclamation.

**Reports:** Report analytical results to Division prior to fertilizer application.

**Citation:** Chapter 2, page 2-40 and Chapter 5, Section R645-301-541, page 5-104

## **Title: REMOVAL OF COAL WASTE**

**Objective:** Remove coal waste from railroad tracks and from small waste piles adjacent to Lower Preparation Plant in order to create a non-toxic root zone of four feet. Waste should be placed in slurry pond 1.

**Frequency:** After removal of railroad tracks from Hiawatha yard.

**Status:** Long term, final reclamation of slurry pond 1.

**Reports:** Keep records of activity/volumes to report in bond release application.

**Citation:** Chapter 5, Section R645-301-541, page 5-104

## **Title: SAMPLE SLURRY POND #1 AND #5A PRIOR TO REGRADING FOR ACID/TOXIC CHARACTERISTICS**

**Objective:** Maintain a non-toxic root zone of four feet.

**Frequency:** After rough grading to final contour, but prior to topsoil application at final reclamation.

**Status:** At final reclamation, prior to topsoil application.

**Reports:** Report analytical results to Division prior to topsoil application.

**Citation:** Chapter 2, Section R645-301-241, page 2-40

## **Title: SUBSOIL SAMPLING**

**Objective:** Maintain a non-toxic root zone of 4 ft.

**Frequency:** After rough grading to final contour, but prior to topsoil application at final reclamation.

**Status:** At final reclamation.

**Reports:** Report analytical results to Division prior to topsoil application.

**Citation:** Chapter 2, Section R645-301-241, page 2-40

**Title: ROAD MAINTENANCE**

**Objective:** Support drainage, move boulders or timber which block the path, and replace culverts as needed.

**Frequency:** Annual

**Status:** Perform annually

**Reports:** Report road conditions during annual report

**Citation:** Chapter 5, page 5-71

# REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

The Department of Commerce Report of Registered Principals in included in Appendix C.

**REVIEWER COMMENTS**  Met Requirements  Did Not Meet Requirements

# MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Subsidence Map	Not required	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine Maps	No change	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**REVIEWER COMMENTS**     Met Requirements                       Did Not Meet Requirements

## **APPENDIX A**

### **Certified Reports**

Excess Spoil Piles  
Refuse Piles  
Impoundments

As required under R645-301-514

### **CONTENTS**

Pond D003 Annual Inspection Report  
Pond D004 Annual Inspection Report  
Pond D006 Annual Inspection Report  
Pond D008 Annual Inspection Report  
Pond D009 Annual Inspection Report  
Pond D0011 Annual Inspection Report  
Refuse Pile 1 Annual Inspection  
Slurry Pond 1 Annual Inspection  
Slurry Pond 5a Annual Inspection

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		D003	Page 1 of 2
Permit Number	C/007/011	Report Date	6/27/2018
Mine Name	Hiawatha Mine Complex		
Company Name	Hiawatha Coal Company, Inc.		
Impoundment Identification	Impoundment Name	Upper Rail Yard Sediment Pond	
	Impoundment Number	D003	
	UPDES Permit Number	UT0023094	
	MSHA ID Number	N\A	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	June 27, 2018		
Inspected By	Charles Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual, Quarterly.		
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b>			
The dam was sound & had no signs of structural weakness, erosion or any other hazards, at the time of inspection.			
Required for an impoundment which functions as a SEDIMENTATION POND.	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>		
	Sediment storage capacity = 1.19 ac-ft 60% cleanout elevation = 7212.0 100% sediment storage elevation = 7212.7 Existing sediment elevation = ~7209.2		
	<b>3. Principle and emergency spillway elevations.</b>		
Principle spillway elevation = 7214.5 Emergency spillway elevation = 7217.7			
<b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.			
No discharges occurred to date in 2018. Both the pond inlets and outlets are fine. The pond was cleaned out this spring. In the process, the depth of the pond increased an additional 1.8' as compared to the pond design. I recommend leaving MRP Exhibit VII-8 as shown and allow the additional depth to fill in over time.			
<b>5. Field Evaluation.</b> Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
Cleaning of the pond is complete and an as-built survey was conducted in April by Mark Reynolds. A certification letter is attached to this report. There is currently no sediment in the pond. The existing water storage capacity is 2.18 ac-ft, which is greater than the 0.76 Ac-ft required.			
Qualification Statement	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature:		Date:

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

**YES**

**NO**

1. Is impoundment designed and constructed in accordance with the approved plan?

X

2. Is impoundment free of instability, structural weakness, or any other hazardous condition?

X

3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?

X

**COMMENTS AND OTHER INFORMATION**

The sediment pond is functioning according to its design, with extra capacity existing after the cleanout. An as-built survey was conducted on April 12, 2018. A copy of the certification letter is attached to this report.

**Certification Statement:**

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



[PE Cert. Stamp]

By: Charles Reynolds, Mine Manager  
(Full Name and Title)

Signature: Charles Reynolds Date: 6/27/2018

P.E. Number & State: 179670, Utah

# A&M Engineering LLC

158 North Main Street Suite C  
Pocatello, Idaho 83204  
Phone (385) 414-2857 Fax (801) 746-2403

12 April, 2018  
Project No. 0118-04

Charles Reynolds  
Hiawatha Coal Company  
P.O. Box 1240  
Huntington, UT 84528

**Re: Sediment Pond D003 and D008 March 2018 Survey After Cleanout.**

## **Project Description**

Survey Upper Rail Yard Pond D003. Determine depth of pond, verify elevation of spillway and decant, verify pond cleaned out to original design. If pond design has changed substantially provide new pond design maps. Survey Middle Fork Pond D008. Determine if original depth of pond has been reached. Verify embankments at original design slope and elevation of spillway. Advise on length of decant pipe needed to reach original design elevation.

## **Summary**

Pond D003 spillway, decant, embankment elevations and embankment slopes meet original design. Pond D003 has been restored to original design with the exception of the pond depth. The original bottom of pond elevation was 7211.5. The current bottom of pond elevation is 7209.2 or 2.3' deeper than the original. Existing pond maps are adequate. Pond should be left at the deeper elevation and sediment allowed to fill it back up to original depth. A note should be made on the quarterly DOGM pond reports regarding the additional depth.

Pond D008 has been cleaned to match original design. The decant pipe was installed to the original design elevation. Existing pond maps are adequate.

## **Discussion**

Pond D003 was recently cleaned. Survey Instrument was set up in the bottom of the pond and elevations of the decant and spillways were surveyed. Points were surveyed along the top, middle, and bottom of the embankment at intervals of approximately 15' spacing. Points were surveyed along the bottom at approximately 15' spacing east to west and 10' spacing north to south. The decant elevation was at original design elevation. The overflow consisted of two culverts. The larger culvert was at original design elevation. The smaller is 3 ½ inches higher than overflow. This difference in elevation should not affect spillway performance. The original design bottom of pond elevation is 7211.5. The existing bottom of pond elevation ranges from 7208.2 to 7210.2 with the average being

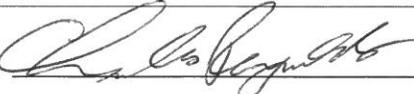
7209.2. This should not affect the pond's performance. The pond capacity is larger than the design capacity. Design maps match as-built design with the exception of pond depth.

Pond D008 was in the process of being cleaned. Marlow Peterson of Hiawatha stated that he was "scraping bedrock" while cleaning out the south half. Survey confirmed he was at bottom of pond elevation and confirmed overflow elevation and embankments slopes for the portion that has been cleaned. The decant was surveyed and then installed to original design elevation. Original design maps are adequate.

Respectfully,



Mark Reynolds, PE, PSE

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		D004	<b>Page 1 of 2</b>
<b>Permit Number</b>	C/007/011	<b>Report Date</b>	10/16/2018
<b>Mine Name</b>	Hiawatha Mine Complex		
<b>Company Name</b>	Hiawatha Coal Company, Inc.		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	Pond North of Slurry Pond 1	
	<b>Impoundment Number</b>	D004	
	<b>UPDES Permit Number</b>	UT0023094	
	<b>MSHA ID Number</b>	N\A	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	October 16, 2018		
<b>Inspected By</b>	Charles Reynolds		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Annual, Quarterly.	
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b>			
The dam was sound & had no signs of structural weakness, erosion or any other hazards, at the time of inspection.			
<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>		
	Sediment design storage capacity = 0.87 ac-ft 60% cleanout elevation = 7087.8 100% sediment storage elevation = 7089.1 Existing sediment elevation = 7087.0 average		
	<b>3. Principle and emergency spillway elevations.</b>		
Principle spillway elevation = 7089.3 Emergency spillway elevation = 7093.2			
<b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.			
No discharges occurred in 2018. Both of the pond inlets and outlets are fine. The pond is well vegetated. The pond was cleaned in Aug and Sept, which resulted in sediment left in the Southern portion of the pond, but 2.7 ft of extra depth in the Northern portion of the pond. There was no water in the pond at the time of the inspection.			
<b>5. Field Evaluation.</b> Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The existing water storage capacity is 1.42 ac-ft, which is greater than the 0.54 ac-ft required. The Eastern portion of the pond still contains sediment, but the Western portion was cleaned to an extra elevation depth of 7084.3. I anticipate that over time this extra depth will fill in and return the pond to the design depth.			
<b>Qualification Statement</b>	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	<b>Signature:</b>		<b>Date:</b> 10/16/18

**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)

YES

NO

1. Is impoundment designed and constructed in accordance with the approved plan?

X

2. Is impoundment free of instability, structural weakness, or any other hazardous condition?

X

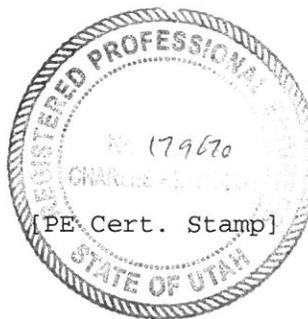
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?

X

**COMMENTS AND OTHER INFORMATION**

The sediment pond appears to be functioning according to its design. The pond was cleaned during the months of August and September. An as-built survey was conducted on October 12, 2018, which verified that except for added depth on the Western portion of the pond the pond configuration remained unchanged. This survey is attached to the inspection report. I anticipate that over time this extra depth will fill in and return the pond to the design depth.

**Certification Statement:**



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: Charles Reynolds, Mine Manager  
 (Full Name and Title)

Signature: Chas Reynolds Date: 10/16/18

P.E. Number & State: 179670, Utah

# A&M Engineering LLC

158 North Main Street Suite C  
 Pocatello, Idaho 83204  
 Phone (385) 414-2857 Fax (801) 746-2403

Charles Reynolds  
 Hiawatha Coal Company  
 PO Box 1240 Huntington Ut 84528

**Re: Sediment Pond D004**

Pond D004 has been cleaned out back to original storage capacity.

Original pond design has a top elevation of 7095 and a bottom elevation of 7087 with the bottom being approximately 50' wide and 150' long. The sides slope of 6' vertical to 20' horizontal on all sides except to west which slopes at 3' vertical to 20' horizontal and also serves as the inlet.

After clean-out the side slopes remained the same. The pond was cleaned down to an elevation of 7084.3 and the west ramping into the pond at a more gradual slope leaving refuse material in the west side of the pond. The additional depth of the pond on the east side is greater than the material left on the west side so the pond has design capacity.

Table 1 shows a comparison of design values vs current values.

Table 1 Design vs Current					
Design			After Cleanout		
Top Elevation	7095	approx	7095		
Bottom Elevation	7087		7084.3		
slope of side	6' v to 20' horizontal		slope of side	6' v to 20' horizontal	
Length of Bottom	150		Length @ 7084	100	
width of bottom	50		width of bottom	53	

The following tables show a comparison of remaining sediment vs additional depth volume.

Sediment Left Behind		Vol (cu ft)	Extra Volume Removed		Vol (cu ft)
Length @ 7085	120	1060	Length @ 7086	65	3,445
Length @ 7086	130	1060	Length @ 7085	40	2,120
Length @ 7087	137	1113	Length @ 7084.3	32	1,187
Length @ 7088	144	1484			
Length @ 7089	150	1590			
Total Volume not cleaned		6,307	Total Excess Volume		6,752

Respectfully,



Mark Reynolds, PE , October 12, 2018

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		D006	Page 1 of 2
Permit Number	C/007/011	Report Date	10/16/2018
Mine Name	Hiawatha Mine Complex		
Company Name	Hiawatha Coal Company, Inc.		
Impoundment Identification	Impoundment Name	Pond East of Slurry Pond 5A	
	Impoundment Number	D006	
	UPDES Permit Number	UT0023094	
	MSHA ID Number	N/A	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	October 16, 2018		
Inspected By	Charles Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual, Quarterly.		
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b>			
The dam was sound & had no signs of structural weakness, erosion or any other hazards, at the time of inspection.			
Required for an impoundment which functions as a <b>SEDIMENTATION POND.</b>	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>		
	Sediment storage capacity = 1.21 ac-ft 60% cleanout elevation = 6990.0 100% sediment storage elevation = 6991.1 Existing sediment elevation = 6988.1		
	<b>3. Principle and emergency spillway elevations.</b>		
Principle spillway elevation = 6992.6 Emergency spillway elevation = 6993.75			
<b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.			
No discharges occurred in 2017. The pond outlets are stable. The pond is well vegetated. The sediment level has not changed since the last quarterly inspection.			
<b>5. Field Evaluation.</b> Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
No changes in the geometry of the pond have occurred. The pond currently contains 0.06 ac-ft of sediment. The existing storage capacity is 2.94 ac-ft, which is greater than the 1.32 ac-ft required.			
Qualification Statement	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature:		Date:

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

**YES**

**NO**

1. Is impoundment designed and constructed in accordance with the approved plan? X
2. Is impoundment free of instability, structural weakness, or any other hazardous condition? X
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? X

**COMMENTS AND OTHER INFORMATION**

The sediment pond appears to be functioning according to its design. The sediment level has not increased from the previous inspection.

**Certification Statement:**

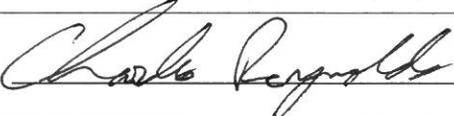


I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: Charles Reynolds, Mine Manager  
(Full Name and Title)

Signature: *Charles Reynolds* Date: 10/16/18

P.E. Number & State: 179670, Utah

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		D008	Page 1 of 2
Permit Number	C/007/011	Report Date	6/27/2018
Mine Name	Hiawatha Mine Complex		
Company Name	Hiawatha Coal Company, Inc.		
Impoundment Identification	Impoundment Name	Middle Fork Sediment Pond	
	Impoundment Number	D008	
	UPDES Permit Number	UT0023094	
	MSHA ID Number	N/A	
<b>IMPOUNDMENT INSPECTION</b>			
Inspection Date	June 27, 2018		
Inspected By	Charles Reynolds		
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)	Annual, Quarterly.		
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b>			
The dam was sound & had no signs of structural weakness, erosion or any other hazards, at the time of inspection.			
Required for an impoundment which functions as a SEDIMENTATION POND.	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>		
	Sediment storage capacity = 2.70 ac-ft 60% cleanout elevation = 8,034.8 100% sediment storage elevation = 8,036.1 Existing sediment elevation = Pond does not contain any sediment		
	<b>3. Principle and emergency spillway elevations.</b>		
Principle spillway elevation = 8,042.0 Emergency spillway elevation = 8,045.5			
<b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.			
Pond cleanout was completed on April 12, 2018. An as-built survey was completed by Mark Reynolds on April 12, 2018.			
<b>5. Field Evaluation.</b> Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The pond does not contain any sediment. The current water storage capacity is about 3.62 ac-ft, which is greater than the required 0.92 ac-ft. Pond is fully functional.			
Qualification Statement	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature:		Date:

**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)

YES

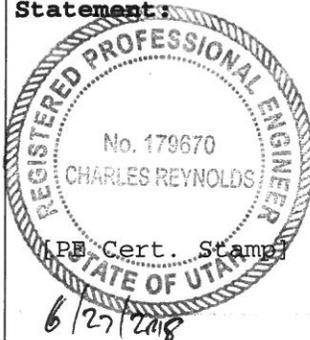
NO

1. Is impoundment designed and constructed in accordance with the approved plan? X
2. Is impoundment free of instability, structural weakness, or any other hazardous condition? X
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? X

**COMMENTS AND OTHER INFORMATION**

Cleanout and repair of the sediment pond was completed on April 12, 2018. All repairs have been made to the pond, which was damaged in a 2013 storm events following the Seeley fire in 2012. The fire burned the undisturbed watershed above the minesite and resulted in off-sight flooding and sedimentation to migrate into the disturbed area and into the sediment pond. Vegetation is beginning to return in the watershed above the minesite. This and efforts of the land owner have eliminated the offsite sediment loading that was occurring. An as-built survey of the pond was conducted by Mark Reynolds on April 12, 2018. The survey confirmed that the pond cleaning activities restored the pond to the exact configuration shown on MRP Exhibit VII-13.

**Certification Statement:**



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: Charles Reynolds, Mine Manager  
 (Full Name and Title)

Signature: Charles Reynolds Date: 6/27/2018

P.E. Number & State: 179670, Utah

# A&M Engineering LLC

158 North Main Street Suite C  
Pocatello, Idaho 83204  
Phone (385) 414-2857 Fax (801) 746-2403

12 April, 2018  
Project No. 0118-04

Charles Reynolds  
Hiawatha Coal Company  
P.O. Box 1240  
Huntington, UT 84528

**Re: Sediment Pond D003 and D008 March 2018 Survey After Cleanout.**

## **Project Description**

Survey Upper Rail Yard Pond D003. Determine depth of pond, verify elevation of spillway and decant, verify pond cleaned out to original design. If pond design has changed substantially provide new pond design maps. Survey Middle Fork Pond D008. Determine if original depth of pond has been reached. Verify embankments at original design slope and elevation of spillway. Advise on length of decant pipe needed to reach original design elevation.

## **Summary**

Pond D003 spillway, decant, embankment elevations and embankment slopes meet original design. Pond D003 has been restored to original design with the exception of the pond depth. The original bottom of pond elevation was 7211.5. The current bottom of pond elevation is 7209.2 or 2.3' deeper than the original. Existing pond maps are adequate. Pond should be left at the deeper elevation and sediment allowed to fill it back up to original depth. A note should be made on the quarterly DOGM pond reports regarding the additional depth.

Pond D008 has been cleaned to match original design. The decant pipe was installed to the original design elevation. Existing pond maps are adequate.

## **Discussion**

Pond D003 was recently cleaned. Survey Instrument was set up in the bottom of the pond and elevations of the decant and spillways were surveyed. Points were surveyed along the top, middle, and bottom of the embankment at intervals of approximately 15' spacing. Points were surveyed along the bottom at approximately 15' spacing east to west and 10' spacing north to south. The decant elevation was at original design elevation. The overflow consisted of two culverts. The larger culvert was at original design elevation. The smaller is 3 ½ inches higher than overflow. This difference in elevation should not affect spillway performance. The original design bottom of pond elevation is 7211.5. The existing bottom of pond elevation ranges from 7208.2 to 7210.2 with the average being

7209.2. This should not affect the pond's performance. The pond capacity is larger than the design capacity. Design maps match as-built design with the exception of pond depth.

Pond D008 was in the process of being cleaned. Marlow Peterson of Hiawatha stated that he was "scraping bedrock" while cleaning out the south half. Survey confirmed he was at bottom of pond elevation and confirmed overflow elevation and embankments slopes for the portion that has been cleaned. The decant was surveyed and then installed to original design elevation. Original design maps are adequate.

Respectfully,



Mark Reynolds, PE, PSE

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		D009	<b>Page 1 of 2</b>
<b>Permit Number</b>	C/007/011	<b>Report Date</b>	10/16/2018
<b>Mine Name</b>	Hiawatha Mine Complex		
<b>Company Name</b>	Hiawatha Coal Company, Inc.		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	South Fork Upper Sediment Pond	
	<b>Impoundment Number</b>	D009	
	<b>UPDES Permit Number</b>	UT0023094	
	<b>MSHA ID Number</b>	N/A	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	October 16, 2018		
<b>Inspected By</b>	Charles Reynolds		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Annual, Quarterly.	
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b>			
The dam was sound & had no signs of structural weakness, erosion or any other hazards, at the time of inspection.			
<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>		
	Sediment storage capacity = 0.76 ac-ft 60% cleanout elevation = 7,902.2 100% sediment storage elevation = 7,903.5 Existing sediment elevation = 7,901.9		
	<b>3. Principle and emergency spillway elevations.</b>		
Principle spillway elevation = 7,903.5 Emergency spillway elevation = 7,910.6			
<b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.			
No discharges occurred in 2017. Both the pond inlet and outlets are fine. The pond is well vegetated. No changes have been made to the configuration since the last inspection.			
<b>5. Field Evaluation.</b> Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
No changes in the geometry of the pond have occurred. The pond currently contains 0.47 acre-ft of sediment. The existing storage capacity is 3.28 ac-ft, which is greater than the 2.99 ac-ft required.			
<b>Qualification Statement</b>	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	<b>Signature:</b> 		<b>Date:</b> 10/16/18

**CERTIFIED REPORT**

**IMPOUNDMENT EVALUATION (If NO, explain under Comments)**

**YES**

**NO**

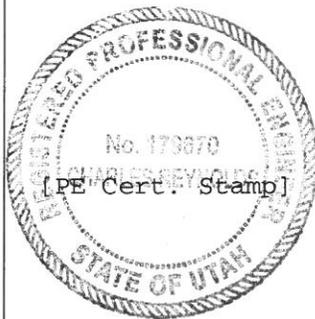
1. Is impoundment designed and constructed in accordance with the approved plan? X
2. Is impoundment free of instability, structural weakness, or any other hazardous condition? X
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? X

**COMMENTS AND OTHER INFORMATION**

The sediment pond appears to be functioning according to its design. The sediment level hasn't changed noticeably since the last inspection.

**Certification Statement:**

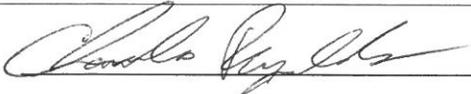
I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.



By: Charles Reynolds, Mine Manager  
 (Full Name and Title)

Signature: [Handwritten Signature] Date: 10/16/18

P.E. Number & State: 179670, Utah

<b>IMPOUNDMENT INSPECTION AND CERTIFIED REPORT</b>		D011	<b>Page 1 of 2</b>
<b>Permit Number</b>	C/007/011	<b>Report Date</b>	10/16/2018
<b>Mine Name</b>	Hiawatha Mine Complex		
<b>Company Name</b>	Hiawatha Coal Company, Inc.		
<b>Impoundment Identification</b>	<b>Impoundment Name</b>	South Fork Lower Sediment Pond	
	<b>Impoundment Number</b>	D011	
	<b>UPDES Permit Number</b>	UT0023094	
	<b>MSHA ID Number</b>	N\A	
<b>IMPOUNDMENT INSPECTION</b>			
<b>Inspection Date</b>	October 16, 2018		
<b>Inspected By</b>	Charles Reynolds		
<b>Reason for Inspection</b> (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		Annual, Quarterly.	
<b>1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.</b>			
The dam was sound & had no signs of structural weakness, erosion or any other hazards at the time of inspection.			
<b>Required for an impoundment which functions as a SEDIMENTATION POND.</b>	<b>2. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</b>		
	Sediment storage capacity = 0.36 ac-ft 60% cleanout elevation = 7,713.9 100% sediment storage elevation = 7,713 Existing sediment elevation = 7,709.8		
	<b>3. Principle and emergency spillway elevations.</b>		
Principle spillway elevation = 7,713 Emergency spillway elevation = 7,718.7			
<b>4. Field Information.</b> Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.			
No discharges occurred in 2017. Both the pond inlet and outlets are fine. The pond is well vegetated. No changes have been made to the configuration since the last inspection.			
<b>5. Field Evaluation.</b> Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
No changes in the geometry of the pond have occurred. The pond currently contains 0.07 ac-ft of sediment. The existing storage capacity is 0.71 ac-ft, which is greater than the 0.31 ac-ft required.			
<b>Qualification Statement</b>	I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	<b>Signature:</b> 		<b>Date:</b> 10/16/18

**CERTIFIED REPORT**

IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO
1. Is impoundment designed and constructed in accordance with the approved plan?	X	
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?	X	
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	X	

**COMMENTS AND OTHER INFORMATION**

The sediment pond appears to be functioning according to its design. The sediment level hasn't changed noticeably since the previous inspection.

**Certification Statement:**



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

**By:** Charles Reynolds, Mine Manager  
 (Full Name and Title)

**Signature:** *Charles Reynolds* **Date:** 10/16/18

**P.E. Number & State:** 179670, Utah

**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
 Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458  
[www.ogm.utah.gov](http://www.ogm.utah.gov)



**Quarterly Inspection Form - Refuse Disposal Areas**  
 (please provide to DOGM promptly after inspection is complete)

Permit Number :	<u>C/007/011</u>	Inspection Date :	<u>October 16, 2018</u>
Mine Name :	<u>Hiawatha Mine Complex</u>	Quarter / Year :	<u>4th Quarter, 2018</u>
Mine Operator (Permittee) :	<u>Hiawatha Coal Company, Inc.</u>	Inspector Name :	<u>Charles Reynolds</u>
MSHA ID # :	<u>1211-UT-09-02157-04</u>	Inspector Signature :	
Facility Name / Location / Address :	<u>Refuse Pile 1</u>		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):  
No material was added or removed since the last inspection.

2. Lift Height / Thickness Avg N/A Maximum N/A # \_\_\_\_\_ Elevation of Active Benches : N/A , \_\_\_\_\_ , \_\_\_\_\_  
 3. Vertical Angle of Outslope(s) / Location(s) where measured 40 deg SW / 44 deg SE / 44 deg E / 39 deg N  
 4. Total storage capacity: N/A Remaining storage capacity Unknown Volume placed during year : 0  
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :  
N/A

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :  
N/A

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :  
No. The refuse pile is stable.

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :  
N/A

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :  
No instability or erosion was observed. Drainage controls are functioning and stable.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Could failure of structure create an impoundment (provide description) ? \_\_\_\_\_  
No. See above.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?  
Yes.

Proctor Determination : Refuse is stable. No hazardous conditions were observed.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
 Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458  
[www.ogm.utah.gov](http://www.ogm.utah.gov)



**Quarterly Inspection Form - Refuse Disposal Areas**

(please provide to DOGM promptly after inspection is complete)

Permit Number :	<u>C/007/011</u>	Inspection Date :	<u>October 16, 2018</u>
Mine Name :	<u>Hiawatha Mine Complex</u>	Quarter / Year :	<u>4th Quarter, 2018</u>
Mine Operator (Permittee) :	<u>Hiawatha Coal Company, Inc.</u>	Inspector Name :	<u>Charles Reynolds</u>
MSHA ID # :	<u>1211-UT-09-02157-01</u>	Inspector Signature :	
Facility Name / Location / Address :	<u>Slurry Pond 1</u>		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):  
No changes have been made to the pond. No material was added or removed.

2. Lift Height / Thickness Avg N/A Maximum N/A # \_\_\_\_\_ Elevation of Active Benches : N/A , \_\_\_\_\_ , \_\_\_\_\_  
 3. Vertical Angle of Outslope(s) / Location(s) where measured 37 deg. N / 42 deg / 44 deg / \_\_\_\_\_ / \_\_\_\_\_  
 4. Total storage capacity: N/A Remaining storage capacity 50,000 cu.yd. min Volume placed during year : 0  
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :  
N/A

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :  
No changes have been made to the configuration.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :  
No.

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :  
N/A

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :  
No instability or erosion was observed. Drainage controls are functioning.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Could failure of structure create an impoundment (provide description) ? \_\_\_\_\_  
No. See above.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?  
Yes.

Proctor Determination : Refuse is stable. No changes have occurred to the slurry pond.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

**State of Utah**  
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**Quarterly Inspection Form - Refuse Disposal Areas**

(please provide to DOGM promptly after inspection is complete)

Permit Number :	<u>C/007/011</u>	Inspection Date :	<u>October 16, 2018</u>
Mine Name :	<u>Hiawatha Mine Complex</u>	Quarter / Year :	<u>4th Quarter, 2018</u>
Mine Operator (Permittee) :	<u>Hiawatha Coal Company, Inc.</u>	Inspector Name :	<u>Charles Reynolds</u>
MSHA ID # :	<u>1211-UT-09-02157-03</u>	Inspector Signature :	
Facility Name / Location / Address :	<u>Slurry Pond 5A</u>		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):  
No changes have been made to the pond. No material was added or removed.

2. Lift Height / Thickness Avg N/A Maximum N/A # \_\_\_\_\_ Elevation of Active Benches : N/A , \_\_\_\_\_ , \_\_\_\_\_  
 3. Vertical Angle of Outslope(s) / Location(s) where measured 40 deg left / 42deg mid / 44 deg right / 44 deg west  
 4. Total storage capacity: N/A Remaining storage capacity ~50,000 cu.yd. Volume placed during year : 0  
 5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :  
N/A

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :  
No changes have been made to the configuration.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :  
No.

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :  
N/A

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :  
No instability or erosion was observed. Drainage controls are functioning.

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Could failure of structure create an impoundment (provide description) ?  
No. See above.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?  
Yes.

Proctor Determination : Refuse is stable. No changes have occurred to the slurry pond.

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)

## **APPENDIX B**

### **Reporting of Technical Data**

Including monitoring data, reports, maps, and other information  
As required under the approved plan or as required by the Division

In accordance with the requirement of R645-310-130 and R645-301-140

#### **CONTENTS**

None.

## **APPENDIX C**

### **Legal Financial, Compliance and Related Information**

Annual Report of Officers  
As submitted to the Utah Department of Commerce

Other change in ownership and control information  
As required under R645-301-110

#### **CONTENTS**

Annual Report of Officers

## Registered Principals

Name	Type	City	Status
HIAWATHA COAL COMPANY, INC.	Corporation	Salt Lake City	Active
Position	Name	Address	
Registered Agent	CARL E KINGSTON	3212 S STATE ST	Salt Lake City UT 84115
President	E O FINLEY	3212 S STATE ST	Salt Lake City UT 84115
Director	E O FINLEY	3212 S STATE ST	Salt Lake City UT 84115
Vice President	N J FINLEY	3212 S STATE ST	Salt Lake City UT 84115
Director	N J FINLEY	3212 S STATE ST	Salt Lake City UT 84115
Secretary	N J FINLEY	3212 S STATE ST	SALT LAKE CITY UT 84115
Treasurer	N J FINLEY	3212 S STATE ST	SALT LAKE CITY UT 84115
If you believe there may be more principals, click here to <a href="#">View Filed Documents</a>			

Search by:

Business Name:

**APPENDIX D**

**Mine Maps**

As required under R645-302-525-270

**CONTENTS**

None

**APPENDIX E**

**Other Information**

In accordance with the requirements of R645-301 and R645-302

**CONTENTS**

None